TENTATIVE SCHEDULE (**UPDATED** 1/5/2004)

Week	Lecture Topics	Labs
1	**I Introduction** *course outline and objectives* *general description of wind waves* **II Deep Water Theory and Prediction** *deep water linear wave theory*	**extra lecture** (Wed. 1500-1550)
2	dispersion, kinematics and energetics *wave generation* historical developments, Phillips' theory	**extra lecture** (Wed. 1500-1550)
3	Miles' theory, equilibrium spectra laboratory and field data	**I** Wave Measurement and Analysis
4	*nonlinear wave-wave interactions* theory, the JONSWAP spectrum *whitecapping*	**II** Hurricane Swell Observations
5	*swell dispersion* *numerical prediction* spectral energy balance	CLASS PRESENTATIONS (deep water topics)
6	operational modes; global forecasts	**extra lecture** (Wed. 1500-1550)
7	**III Coastal Theory and Prediction** *uniform depth* dispersion relation, phase and group speed	**III** Numerical Prediction Models
8	*varying depth* shoaling and refraction ray tracing and spectral transformation *regional models*	**IV** Wind Seas in a Coastal Region
9	*surf prediction* breaking criteria, energy dissipation surf prediction models	CLASS PRESENTATIONS (shallow water topics)
10	**no lectures**	**V** Monterey Bay Cruises
11	**no lectures**	**VI** Cruise Data Analysis